

Message

**From:** Carmine Vasile [gfx-ch@msn.com]  
**Sent:** 9/23/2013 9:58:16 PM  
**To:** SANDRA ARCANGELO [d[REDACTED] Email / Ex. 6]; jortiznh[REDACTED] Email / Ex. 6]; Bradley Schnur [v[REDACTED] Email / Ex. 6]; Claudia Borecky [c[REDACTED] Email / Ex. 6]; Patricia Kessler [p[REDACTED] Email / Ex. 6]; Paul Franco [p[REDACTED] Email / Ex. 6]; Phil Franco\_2 [p[REDACTED] Email / Ex. 6]; Rich Bentley [rbentley@downstate.edu]; Greg Naham\_NCCCA [ganconsultants@gmail.com]  
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**Subject:** RE: LI News 12 Water Series  
**Attachments:** Resp-FOIL#13-08-239-9\_11\_13.pdf; Well 4-1 & Hemp.pdf

Claudia & Sandra: My wife and I just watched the first episode of *What's in the Water*. As expected, there was no mention of Radionuclides by Adrienne Esposito, Mike Boufis, or Pat Dolan although pg. 1 of the "Well 4-1..." attachment states: **"As was reported today in Newsday, the Bethpage Water District Board of Commissioners has taken proactive precautionary measures and shut down one of its drinking water supply wells to investigate higher than usual levels of Radium."**

Pat Dolan said public water supplies are safe, but recommended private well owners to have their water tested each year. To what standard, he didn't say.

If either of you, or those copied, are allowed to speak on Thursday, here are some simple questions for the experts, based upon the attachments --- which can be used by Ethan to resubmit his petition to make Grumman a Superfund site:

1. Is it true: **"NYSDOH and EPA do not have an equivalent table for naturally occurring beta and photon emitters -- only for man-made radionuclides?"**
2. If true, how could any LI water company or NYDOH Compliance Officer certify compliance with the 4 mrem MCL of any public water system by performing "Sum-of-the-Fractions" calculations mandated in the EPA's radionuclides regulations set in 1976?
3. Wouldn't this explain Bethpage's high cancer rates because 2006 & 2012 tests on the now closed Well 4-1 show peak Radium 226/228 levels actually increased from 3.61/1.94 to 3.62/2.18 pCi/L between 2006 & 2012?
4. Since the half life of Radium-228 is only 5.8 years compared to 1,600 for Radium-226, shouldn't peak Radium-228 activity levels have dropped to less than 0.97 instead of increasing to 2.18 pCi/L in 6 years????
5. Would this increase indicate Grumman buried a reactor, or some other source of Radium-228, in one of its dumps?
6. Why hasn't the EPA intervened; given the aquifer feeding Bethpage & Hempstead is known to be contaminated with Radium-226/228; both of which emit cancer-causing Beta & Alpha particles -- contrary to this erroneous statement by some NYSDOH radionuclides expert: **"Please note that Radium-226 is an alpha particle emitter, and Radium-228 is a naturally occurring beta particle emitter. Therefore, the MCL of 4 mrem/year is not applied to these isotopes. However, they are regulated with the combined Radium-226/228 MCL of 5 pCi/L."**
7. Without performing the Sum-of-the-Fractions method, how could the Bethpage Water Commissioners post this on their website: **"On behalf of the Bethpage Water District, we would like to inform our customers that our drinking water has been and continues to be safe with which to drink, wash, cook and bathe"** when they know Radium 226 and/or 228 levels in Well 4-1 have increased since 2006? (Quote from "Well 4-1..." attachment)

Carmine

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From: darcsand@verizon.net

To: [redacted] Email / Ex. 6; claudiaborec [redacted] Email / Ex. 6; pakess [redacted] Email / Ex. 6  
pfl [redacted] Email / Ex. 6; rbentley@downstate.edu

CC: gfx-ch@msn.com; info@bethpagecancerproject.com

Subject: LI News 12 Water Series

Date: Mon, 16 Sep 2013 17:12:08 -0400

Starting next Monday 9/23 through 9/27 News 12 is going to run series on LI water I believe starting about 5pm. Thursday will be 7-8pm according to info given to me. They interviewed me today in my home but don't know if my interview will be used or not.

Sandra